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AT CITY COLLEGEExplains the Genesis of His  
Theory of Relativity to  
Crowded Hall.

## THREE MORE LECTURES

Refers to Development  
Through Michelson, Lorenz  
and Minkowski.

## OFFERS LITTLE FORMULA

Length, Time and Mass Referred to Unchanging Velocity of Light.

Prof. Albert Einstein delivered yesterday afternoon the first of a series of four lectures at the College of the City of New York, speaking on "The Special Theory of Relativity." The New York Herald requested Dr. Benjamin Harrow, associate in biochemistry at the College of Physicians and Surgeons of Columbia University, to report the lecture. Dr. Harrow is the author of "From Einstein to Newton." The report is subjoined.

By DR. BENJAMIN HARROW.

"How many are familiar with differential and integral calculus?" was the first question asked by Prof. Albert Einstein at the commencement of the first of four lectures on the theory of relativity that he is giving at the College of the City of New York. Of the several hundred that crowded the lecture hall, only 50 per cent. responded in the affirmative.

"That is very encouraging," said the professor, "and now we shall proceed. And proceed he did, making use of his native German to an extent which brought visible distress to many in the audience."

In his first lecture Prof. Einstein confined himself entirely to the special or earlier part of the theory of relativity. Though the tools of the mathematician were in evidence, the derivation of the several equations was reserved for today's performance.

"The equations without the derivations are more than enough for me," exclaimed a professor of chemistry to me after the lecture.

Prof. Einstein first referred to the celebrated Michelson experiment, which was undertaken in the hope of proving that there is an ether in space. With an ether pervading space, a ray of light travelling a certain distance up and down would have taken a longer time for its journey than one travelling an equal distance across and back. Michelson could detect no difference.

## Explanation of Lorentz.

To explain that anomalous result and at the same time to give further indirect evidence of the presence of this ether in space, Lorentz, the Dutch physicist, suggested that matter contracts in the direction of its motion; and indeed by an amount which would compensate for the longer time taken for light to travel the up and down distance. Lorentz's view, if accepted, not only strengthened the argument in favor of the ether but also explains why motion through the ether, and the ether itself, can never be detected.

At that stage, early in 1905, Einstein joined the merry party. "Let us ignore the ether altogether," he suggested, "and let us see where this will lead us." With the help of mathematical machinery which will be revealed to us in detail to-day, Einstein, using two well recognized postulates, arrived at exactly the same contraction formula that Lorentz did, with this advantage over Lorentz, that neither the question of the ether nor the nature of matter entered the derivation of the Einstein formula. Einstein's two postulates are based on the constancy of the velocity of light, and also on the fact that we cannot detect absolute, but only relative motion.

Einstein's equations lead to four momentous conclusions: In the first place, two observers in relative motion will not agree in their measurements of time interval necessary for a given event to take place. Secondly, the measurement of time is no vaguer than that of length. Thirdly, neither is the mass of a body a fixed quantity, for it varies with the velocity of the body. And, finally, matter and energy are merely different names for the same fundamental entity.

An innocent little formula.  
To make the subject a little bit more confusing to the layman and a little bit more enlightening to the mathematically inclined reader, it may be mentioned that the chief factor in the Lorentz-Einstein equations is a little formula which, if put into words, reads like this:

"The square root of one minus v squared over c squared."  
That innocent little formula leads to this inevitable conclusion: That so long as the velocity of an object, say the velocity of light, is small as compared to the velocity of light, length, time and mass will seem to change little, if at all; when, however, the velocity of an object becomes appreciable as compared to that of light—as in the velocity of electrons shot out from radium—this no longer holds true. Another interesting fact that formula brings out is that no velocity greater than that of light is possible, otherwise the equation would lead to a negative number—which is therefore imaginary and has no reality.

The next step in the development of the theory of relativity we really owe to Minkowski, whose phrase "time and space by themselves are mere shadows" has since become classical. To Minkowski we owe the development of the "time-space" conception, wherein time merely figures as a fourth coordinate, the other three being the usual three-space, or three-dimensional coordinates. Minkowski showed how, by the application of a four-dimensional analysis, we get equations which are more universally applicable than those of the three-dimensional type.

But of this and more, more, much more, is promised to-day.

## FORM PAN-AMERICAN STUDENT LEAGUE HERE

Fifteen Latin American Countries Are Represented.

The Pan-American Students League, including in its membership representatives of fifteen Latin-American nations, was organized last night in Columbia University. Addresses were made by Dr. Esteban Gil Borges, Venezuelan Minister, and John Barrett, faculty in director-general of the Pan-American Union, and Manuel Padua, assistant secretary in the Mexican Government. The organization, it was announced, has for its purpose the improvement of relations between various American nations. The first congress of the league will be held in Mexico City next September.

COGNOSCENTI OF NYACK  
STILL GREATLY PUZZLEDDr. Myran L. Grant's Contemplated Explanation of  
World's Ills To-day Splits the Ten Intellectuals  
After Judge Tompkins Heaves a Bomb.

The Committee of Those Interested in Intellectual Subjects—meaning the ten women members of the Nyack Club who have invited Dr. Myran Louise Grant, lecturer, to answer for them at 2 this afternoon the question, "What is the Matter With the World To-day?"—was reported last night in telephone messages from Nyack to be sitting on the very brink of a chasm by the club was divided on 6 basis vulgarly known as fifty-fifty.

That is to say, half the members sided with the committee of those interested in intellectual subjects, while the other half held entirely different ideas. The trouble, which by dusk yesterday had begun to shake all the Nyack section of the Hudson Valley, is said to have been caused by the discovery that Dr. Grant was to deliver the lecture and by the comment of Justice Arthur S. Tompkins of the Supreme Court that the last time Dr. Grant spoke publicly, her talk was "un-American, unattractive and socialistic in its tendencies."

It is understood that Mrs. Gordon C. Glass, who is chairman of the Committee of Those Interested, is highly incensed over the criticism that has been directed against Dr. Grant. Most especially was she disturbed by another

U. S. ZIONISTS BREAK  
WITH WORLD BODYJudge Mack and Dr. Weizmann Disagree Over Bureau  
to Raise Funds.

Judge Julian W. Mack, president of the Zionist Organization of America, issued a memorandum last night announcing the severance of negotiations with Dr. Chaim Weizmann, president of the World Zionist Organization, for raising and expending funds in the United States for the rehabilitation of Palestine. Dr. Weizmann arrived in New York about two weeks ago, accompanied by Prof. Albert Einstein and others, to establish the Keren Hayesod Bureau. Yesterday he made public a proclamation to the Jews of America to submit to a "form of self-taxation" in raising the American share of funds necessary for the restoration of Palestine.

Judge Mack states that negotiations were "brutally terminated" by Dr. Weizmann after efforts had been made to reach a common understanding on the basis of the unanimous resolution of the Buffalo convention last year looking to the establishment of the Keren Hayesod Bureau in the United States. According to the Buffalo resolution the bureau was to be a means of raising only a donation fund "to be used exclusively in Palestine and under such adequate safeguards as would secure its proper expenditure."

Inasmuch as Dr. Weizmann later rejected an offer which was under consideration and issued a proclamation, independent of the Zionist Organization of America, establishing the bureau in the United States, Judge Mack is authority for the statement that "the officers of the Zionist Organization of America are not parties to this proclamation." Judge Mack promised that a full statement of the negotiations will be made and accompanied by plans of the American organization for initiating the Palestine donation fund pursuant to the resolutions of the Buffalo convention.

Upon learning of the attitude of Judge Mack, members of the Weizmann delegation, who have headquarters in the Hotel Commodore, issued a statement explaining that Dr. Weizmann's mission to this country was undertaken in accordance with authority vested in him by the annual conference of the World Zionist Organization in London, July, 1920, at which the American branch was "adequately represented."

"Dr. Weizmann could not take special cognizance of resolutions subsequently adopted by the Buffalo convention, which resolutions were not in accord with the London resolution," according to the statement.

"The Keren Hayesod has been registered as a limited company in Great Britain," it continues. "The interests of the world Zionist Organization are guaranteed and the safeguards of proper expenditure of these funds in Palestine are secured by the presence on the board of the Keren Hayesod of a governor, appointed by the executive of the World Zionist Organization, which controls 51 per cent. of the votes."

"It is further observed that the provisions of the draft as published by Judge Mack do not include the first paragraph, which is of fundamental importance, inasmuch as it demands the right on behalf of the Zionist Organization of America to organize and control the Keren Hayesod bureau."

MOTHER ASKS INQUIRY  
ON WOMAN'S DEATH

Medical Examiner's Office Sends Report on Operation.

The death of Mrs. Evangeline G. Psaki, wife of Emanuel Psaki, an importer and exporter at 105 Hudson street, who died on March 6, following an operation, has been under investigation by District Attorney Lewis in Brooklyn for several weeks. It was learned yesterday, Mrs. Psaki died at her Brooklyn home, 708 Bay Parkway. District Attorney Lewis began the investigation following the complaint of Mrs. Psaki's mother, Mrs. James S. Greer, whose husband is said to be a cousin of the late Bishop Green.

PRESIDENT HADLEY BIDS  
GRADUATES FAREWELL

NEW HAVEN, April 18.—President Arthur T. Hadley of Yale made his farewell speech to the local graduates at the dinner of the New Haven Yale Alumni Association to-night. His topic was "Yale and New Haven." He told of the greater cooperation between university and city which has developed in recent years and spoke of the interest in local affairs shown by the Yale faculty, particularly in elections.

"Three-quarters of the misunderstanding that arises between the college and city," he said, "arises from the fact that college and city are trying to do different things but that neither the college nor the city knows exactly what the other is doing and thinking."

TAMMANY FEARS  
LOSS OF ALDERMENRepublican Majority Possible  
Under Redistricting by  
Legislature.

## TWO SEATS ELIMINATED

Three Places in Manhattan  
Also Likely to Be Lost to  
Democrats.

There was considerable alarm yesterday in the Tammany camp over the possibility of a Republican majority in the Board of Aldermen after the next election because of the bill passed by the recent Legislature over the Mayor's veto rearranging the Aldermanic districts of the city.

The redistricting eliminates three Aldermen from Manhattan's present total of twenty-seven and adds one to the present five of the Borough of Queens. The new lines will follow generally the lines of the Assembly district, with several more or less sharp departures.

The First and Second Assembly districts in Manhattan now have three representatives in the Board of Aldermen. Under the new law they will have only two. The Third and Fifth Assembly districts' representation will be cut from three to two. The Sixteenth and Eighteenth Assembly districts retain their present quota of three Aldermen.

In the foregoing combination lies something of what is disturbing Tammany Hall. The reductions in the first two groups of Assembly districts chop off two Democratic Aldermen, but the Sixteenth and Eighteenth are East Side Italian districts, where the Republicans, it is said, hope to meet with success in the next election. That section already has a Republican Alderman in the person of Charles Novello of the Twenty-second Aldermanic district.

There are those who believe that another term as President of the Aldermen would be attractive to Mr. La Guardia, while his aid in the closely disputed battle ground would be appreciated by the Republican organization.

Republicans of Manhattan, with only ten representatives in the board as against fifteen Democrats and one Socialist, are counting on the following thirteen Aldermanic districts: Sixth, Seventh, Ninth, Tenth, Eleventh, Thirteenth, Fifteenth, Seventeenth, Nineteenth, Twentieth, Twenty-first, Twenty-second and Twenty-third.

Brooklyn has thirteen Republicans in the board as against nine Democrats and two Socialists. Jacob A. Livingston, Republican leader in that borough, is understood to have promised to deliver at least one or two more Republicans in the next election.

One more Republican seat is said to be expected from The Bronx, Queens and Richmond. The present lineup of those boroughs is: The Bronx, seven Democrats and one Socialist; Queens, three Democrats and two Republicans; Richmond, three Democrats.

The present complexion of the board is: Thirty-seven Democrats, twenty-six Republicans and four Socialists.

FEWER SEALS; PRICE LOWER.  
Catch of About 100,000 and Drop to 84 Per Hundredweight.

ST. JOHN'S, N. E., April 18.—A catch of approximately 100,000 seals, about one-half the normal yield of the annual hunt off the Newfoundland coast, was indicated to-day with the return of three more vessels of the sealing fleet.

The falling off in the catch has been accompanied by a drop in price. Last year pelts sold at an average of \$8 a hundredweight, while this year dealers say they will not average more than half that amount.

KATE HICKIE GETS 3  
YEARS IN HADDEN LIBELHer Pamphlet Attacked  
Prison Reformer.

Kate Tedford Hickie, 54, convicted a week ago of publishing a libel against Alexander M. Hadden, philanthropist and prison reformer, was sentenced yesterday by Judge Alfred J. Taft in General Sessions to an indeterminate term in the penitentiary, the maximum of which is three years.

The libel was published in a pamphlet called "Justice and the Poor," which Miss Hickie distributed on Good Friday, 1920, in St. Thomas's Episcopal Church, which is attended by Mr. Hadden and many of his friends. A commission in lunacy found Miss Hickie insane in January. She was sent to Matteawan, but was later released on a writ of habeas corpus. Miss Hickie was taken to the Tombs after her release to await trial on the libel charge.

VENEZUELA BESTOWS  
DECORATION ON CITYOrder of Bolivar Conferred at  
Reception Here.

The highest honor within the gift of the Venezuelan Republic was bestowed upon New York city yesterday at a formal reception at City Hall to the Venezuelan special mission which is here to unveil a statue of Gen. Bolivar, the Liberator.

The Order of the Liberator, the oldest decoration in South America, was conferred on the city when Dr. Esteban Gil-Borges, the Venezuelan Minister of Foreign Affairs, pinned a gold medal bearing the likeness of Gen. Bolivar and a great blazing star upon the city's flag.

The Venezuelan mission consists of Dr. Gil-Borges, Dr. Santos A. Domínguez, Venezuelan Minister of Foreign Affairs, Francisco Javier Yanes, Dr. Jose Santiago Rodríguez, J. M. Herrera-Mendoza, Manuel Segundo Sanchez and Col. Antonio Martínez-Sánchez. They were greeted by Mayor Hylan and the Dominican Chamber. Dr. Gil-Borges replied.

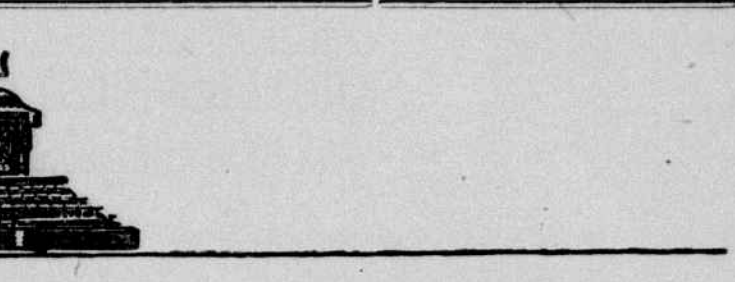
WORLD HOTEL CONGRESS  
IS INVITED TO NEW YORK  
American Delegates in Monaco Get Medal.

MONACO, April 18.—The international conference of hotel men opened here to-day, with delegates from the United States in attendance. It was decided to create an international alliance of hotel men, with headquarters in Paris.

The Minister of State, R. Le Bourdon, presided and presented a medal in behalf of the Prince of Monaco to the American delegates in recognition of the scientific work of Americans.

George W. Sweetser, vice-president of the American Hotel Association, in behalf of the Hotel Association of New York City, invited the delegates to hold a conference in New York in November, 1922. Among other Americans at the meeting were E. P. Hoteller and U. P. Green, the latter representing New York State hotels.

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